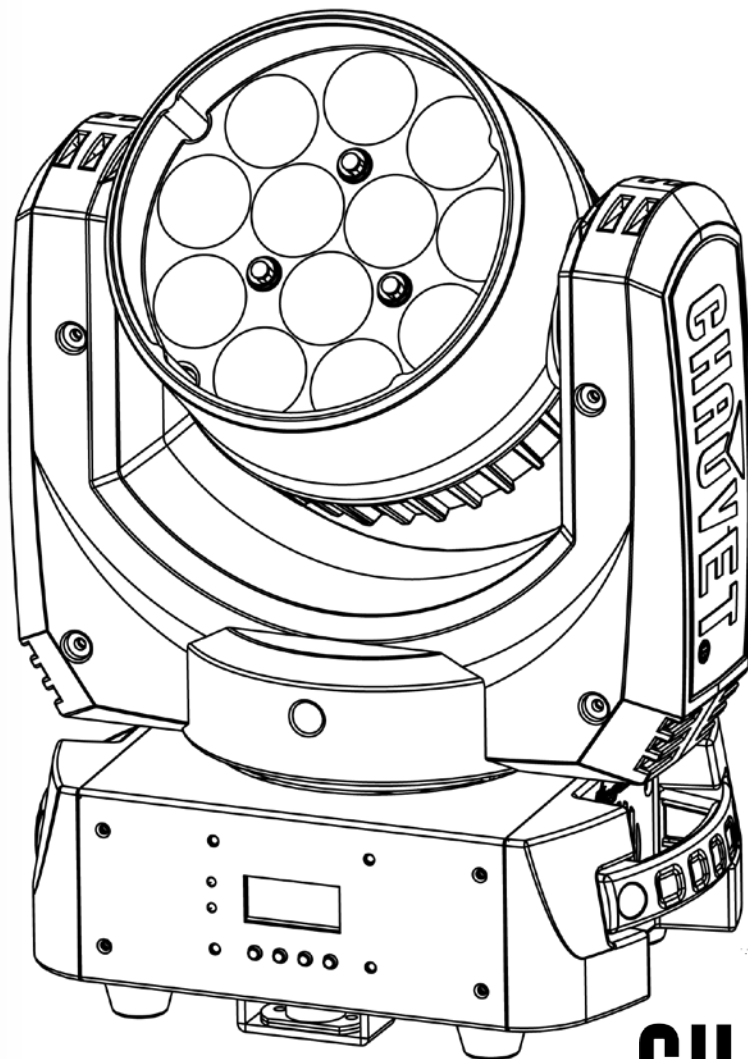# Legend™ 412Z

User Manual

CHAUVET®
PROFESSIONAL

It's Green Thinking.

Edition Notes

The Legend™ 412Z User Manual Rev. 1 covers the description, safety precautions, installation, programming, operation, and maintenance of the Legend™ 412Z. CHAUVET® released this edition of the Legend™ 412Z User Manual in February 2014.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

CHAUVET® believes that the information contained in this manual is accurate in all respects. However, CHAUVET® assumes no responsibility for any errors or omissions in this document. CHAUVET® reserves the right to revise and make changes to the content of this document without obligation that CHAUVET® notify any person or company of such revision or changes. This does not in any way constitute a commitment by CHAUVET® to make such changes. CHAUVET® may issue a revision of this manual or a new edition to incorporate such changes.

Document Revision

The Legend™ 412Z User Manual Rev. 1 is the first edition of this manual. Go to www.chauvetprofessional.com for the latest version.

Author	Date	Editor	Date
D. Couppe	2/5/14	A. Leon	2/5/14

Table of Contents

1. BEFORE YOU BEGIN

What Is Included
- Legend™ 412Z
- Neutrik® powerCON® power cord
- Omega Bracket with mounting hardware
- Warranty Card
- Quick Reference Guide

Claims Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Manual Conventions

Convention	Meaning
1–512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1–10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
⚠	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
ⓘ	Important installation or configuration information. Failure to comply with this information may keep the product from working.
📝	Useful information.

📝 **The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**

Product At A Glance

Use on Dimmer	✖	Auto Programs	✖
Outdoor Use	✖	Auto-Ranging Power Supply	P
Sound-Activated	✖	Replaceable Fuse	P
DMX	P	User-Serviceable	✖
Master/Slave	P		

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained CHAUVET® certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

· Avoid direct eye exposure to the light source while the product is on.
· Always disconnect this product from its power source before servicing.
· Always connect this product to a grounded circuit to avoid the risk of electrocution.
· Do not touch this product's housing during operation because it may be very hot.

Mounting And Rigging

· This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
· Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
· Make sure there are no flammable materials close to this product while it is operating.
· Do not carry this product from the head. Always use the base.
· When hanging this product, always secure to a fastening device using a safety cable.

Power And Wiring

· Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
· Never connect this product to a dimmer pack or rheostat.
· Never disconnect this product by pulling or tugging on the power cable.

Operation

· Do not operate this product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
· Do not cover the ventilation slots when operating to avoid internal overheating.
· The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at a higher temperature.
· In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. INTRODUCTION

Description Legend™ 412Z is a powerful and versatile LED wash fixture with an outstanding zoom range of 8° to 33°, making it perfect for a wide array of applications, from touring to broadcast. The Legend™ 412Z features twelve 10-watt quad-color RGBW emitters with four zones of independent pixel mapping control, providing ultimate versatility in programming and use.

Features
- 15-, 27-, 31-, or 34-channel quad-color LED wash product
- Operating modes:
  - 15-channel: 16-bit P/T control, P/T speed, RGBW, dimmer, strobe, color macro, macro speed, zoom, reset
  - 27-channel: 16-bit P/T control, P/T speed, RGBW quadrant control, dimmer, strobe, color macro, macro speed, zoom, reset
  - 31-channel: 16-bit P/T control, P/T speed, RGBW and dimmer quadrant control; strobe, color macro, macro speed, zoom, reset
  - 34-channel: 16-bit P/T control, P/T speed, RGBW, dimmer, and strobe quadrant control; color macro, macro speed, zoom, reset
- 4 zones of LED control
- Fast and precise pan/tilt movement
- Versatile 8° to 33° zoom range
- 12 powerful 10-watt long-life quad-color RGBW LEDs
- Strobe macros with quadrant control
- Neutrik® powerCON® power input/output connections
- 3-pin and 5-pin DMX input/output connections
- Flicker-free operation for wide market application including broadcast and film

Overview

Control Panel

Front View

Fan

Power In/Out

Fuse

DMX In

DMX Out

Rear View

Mounting Bracket

Bottom View

Handle
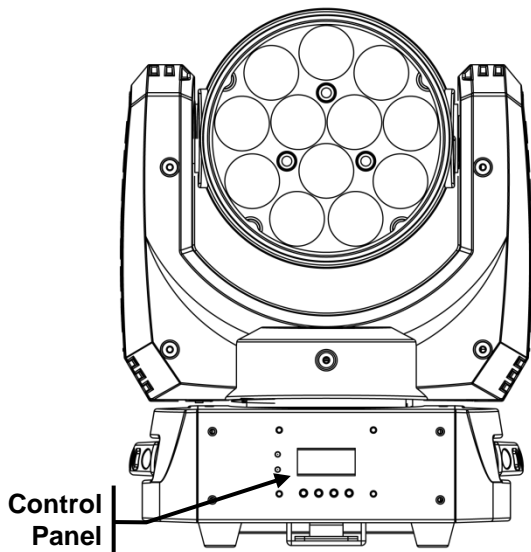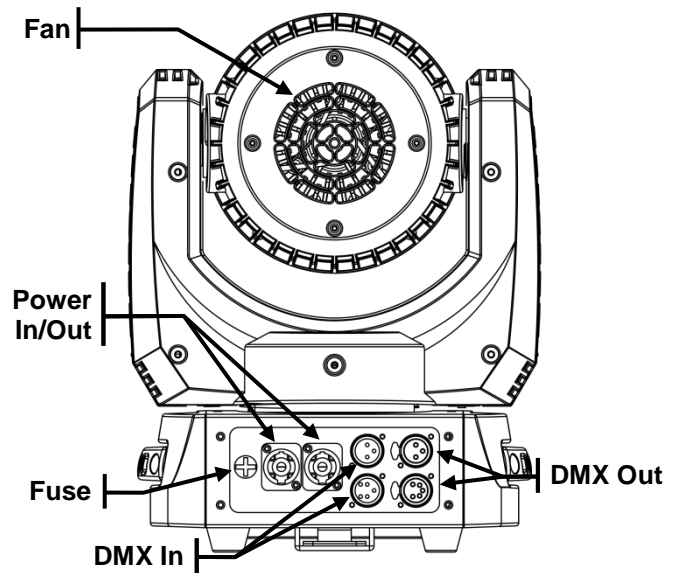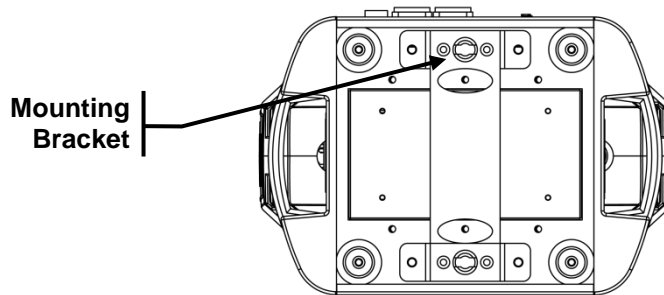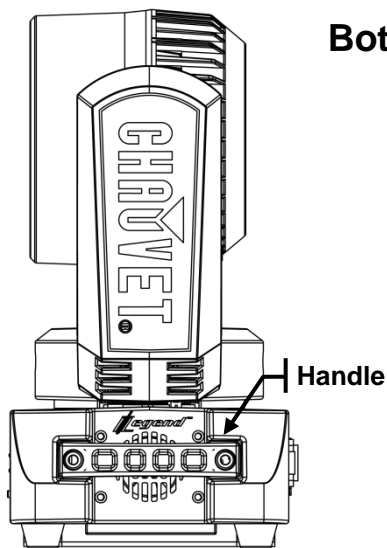
Side View

Top View

Dimensions

13.98 in
355 mm

7.21 in
183 mm

5.51 in
140 mm

5.59 in
142 mm

10.67 in
271 mm

13.66 in
347 mm

12.5 in
318 mm

10.2 in
259 mm

6.37 in
171 mm

10.67 in
271 mm
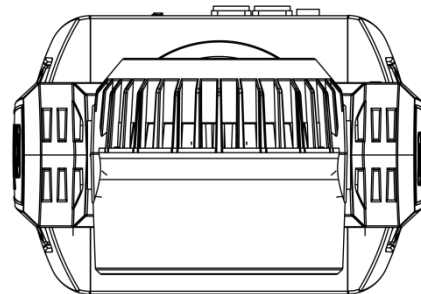
3. SETUP

AC Power Each Legend™ 412Z has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each Legend™ 412Z, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download Sizing Circuit Breakers from the CHAUVET® website: www.chauvetlighting.com/download/pro.

⚠ **Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**

ⓘ **Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

AC Plug The Legend™ 412Z comes with a Neutrik® powerCON A connector on one end and an Edison plug on the other end (US market). If the power cord adapter that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug..

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Fuse Replacement
1. Disconnect this product from the power outlet.
2. Using a Phillips #2 head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with another fuse of the same type and rating (T 6.3 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

⚠ **Make sure to disconnect the product's power cord before replacing a blown fuse. Always replace the blown fuse with another of the same type and rating.**

Power Linking The Legend™ 412Z supports power linking. You can power link up to 9 products at 120 V; up to 15 at 208 V; or up to 17 at 230 V.
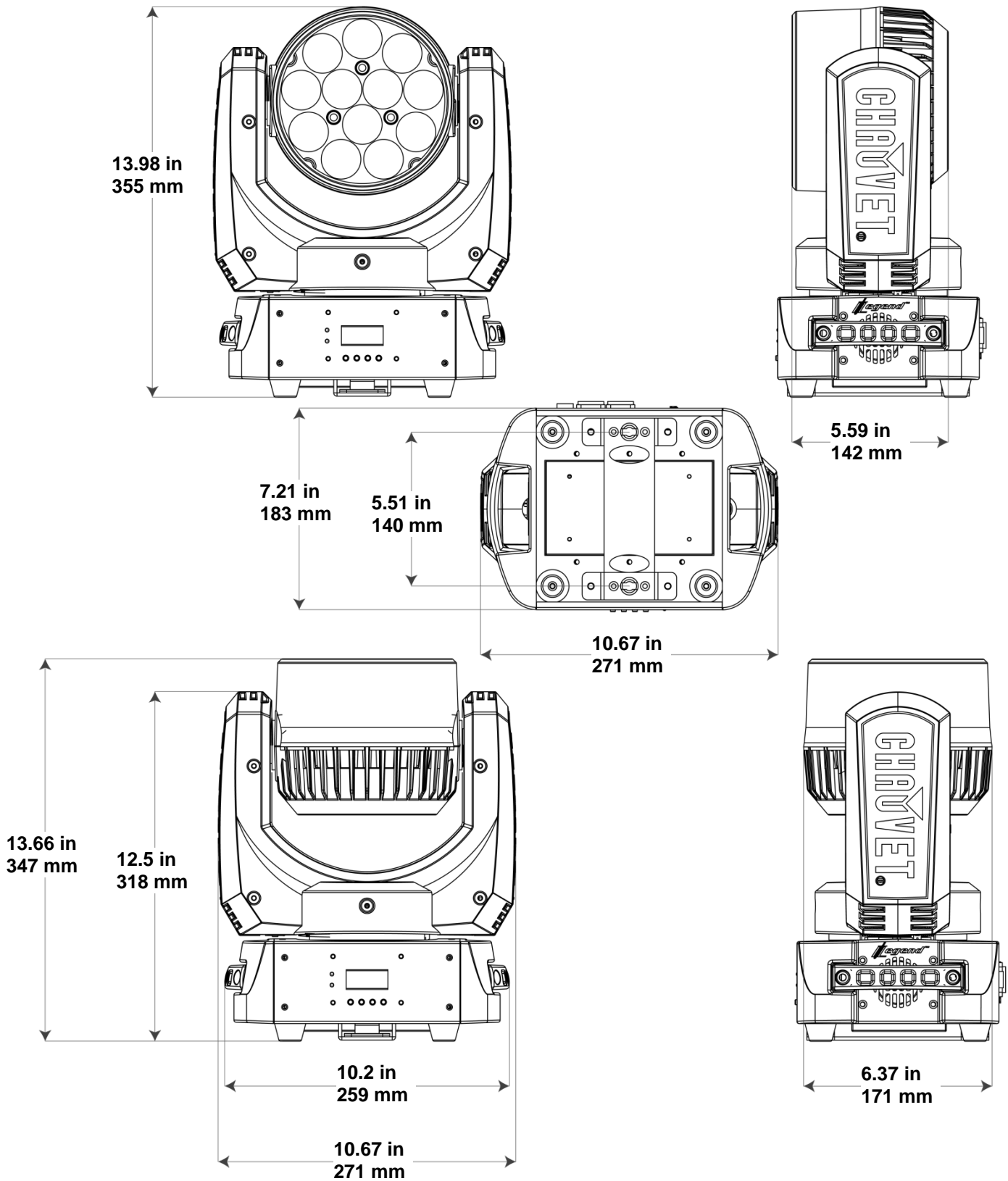
This product comes with a power input cord. Power linking cables are available from CHAUVET® for purchase.

DMX Linking You can link the Legend™ 412Z to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Legend™ 412Z, you can control each individually with a single DMX controller.

DMX Modes The Legend™ 412Z uses the standard DMX data connection for the 15-, 27-, 31-, and 34-channel DMX modes.
· Refer to the Introduction chapter for a brief description of these modes.
· Refer to the Operation chapter to learn how to configure the Legend™ 412Z to work in these modes.
· The DMX Values section provides you with detailed information regarding the DMX modes.

Mounting Before mounting this product, read and follow the Safety Notes. For our CHAUVET® line of mounting clamps, go to http://trusst.com/productcategory/base-plates-accessories-clamps/.

Orientation Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging CHAUVET® recommends using the following general guidelines when mounting this product.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable (such as **CH-05** from CHAUVET®).

Procedure The Legend™ 412Z comes with a double-yoke bracket to which you can either attach mounting clamps for hanging or simply use as a floor stand. You must supply your own mounting clamps. Make sure the clamps (such as **CLP-15** from CHAUVET®) are capable of supporting the weight of this product. Use at least one mounting point per product.

Mounting Clamps

Safety Cable

Omega Brackets
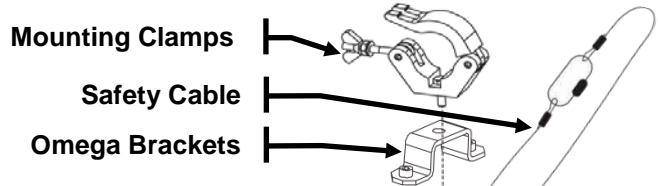
Mounting Diagram
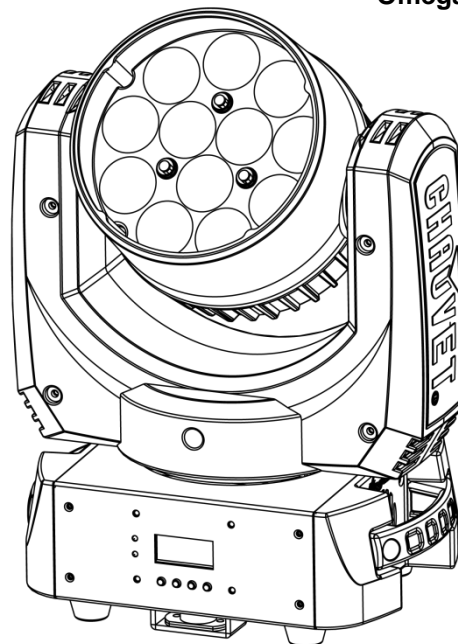
Floor Mounting
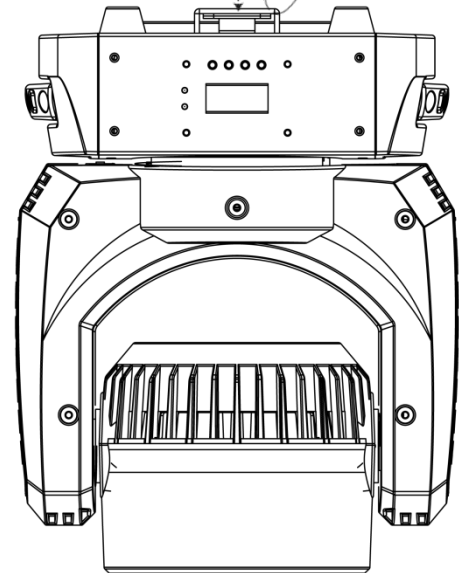
Overhead Mounting

⚠ **When using only one mounting clamp with this fixture, you must use a clamp with a captive bolt to prevent accidental loosening.**

4. OPERATION

Button	Function
Control Panel Description	
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list and decreases the numeric value when in a function

Control Options You can set the Legend™ 412Z starting address in the **001**–**512** DMX range. This enables control of up to 15 products in the 34-channel **34chan** personality.

Programming Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

· To go to the desired main level, press **<MENU>** repeatedly until the option shows on the display. Press **<ENTER>** to select. This will take you to the first programming level for that option.

· To select an option or value within the current programming level, press **<UP>** or **<DOWN>** until the option shows on the display. Press **<ENTER>** to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.

· Press **<MENU>** repeatedly to exit to the previous main level.

Menu Map

Main Level	Programming Levels		Description
DMX Address	**001–512**		Selects the DMX starting address
Channel Mode	**15chan**		Selects 15–channel DMX personality
	27chan		Selects 27–channel DMX personality
	31chan		Selects 31–channel DMX personality
	34chan		Selects 34–channel DMX personality
Pan Inverse	**Yes**		Defines the direction of the pan function
	No		
Tilt Inverse	**Yes**		Defines the direction of the tilt function
	No		
Back Light	**On**		Display backlight always on
	Off		Display backlight turns off after 1 min.
White Balance	**Red**	**125–255**	Defines the color temperature when the red, green, and blue faders are set at 100%
	Green		
	Blue		

Menu Map (Cont.)

Main Level	Programming Levels		Description
Manual Test	Pan	000–255	Sets Pan 0–540°
	Tilt		Sets Tilt 0–270°
	Red1		Sets Quadrant 1 red LED intensity
	Green1		Sets Quadrant 1 green LED intensity
	Blue1		Sets Quadrant 1 blue LED intensity
	White1		Sets Quadrant 1 white LED intensity
	Red2		Sets Quadrant 2 red LED intensity
	Green2		Sets Quadrant 2 green LED intensity
	Blue2		Sets Quadrant 2 blue LED intensity
	White2		Sets Quadrant 2 white LED intensity
	Red3		Sets Quadrant 3 red LED intensity
	Green3		Sets Quadrant 3 green LED intensity
	Blue3		Sets Quadrant 3 blue LED intensity
	White3		Sets Quadrant 3 white LED intensity
	Red4		Sets Quadrant 4 red LED intensity
	Green4		Sets Quadrant 4 green LED intensity
	Blue4		Sets Quadrant 4 blue LED intensity
	White4		Sets Quadrant 4 white LED intensity
	Zoom		Sets zoom position
	Dimmer		Sets dimmer value
	Strobe		Selects the strobe frequency (0–20 Hz)
Auto Test			Starts the product's test sequence
Temp.			Shows the product's current temperature (°C)
Fan Mode	Low		Selects the fan's operation mode.
	High		
	Auto		
Fixture Time			Shows the total amount of time the product has been used (hours)
Firmware Version			Shows the version of the software that has been installed
Reset			Resets product to its home setting

Pan Inverse — This setting allows the user to invert the direction of the pan control.
1. Go to the **Pan Inverse** main level.
2. Select **Yes** or **No**.

Tilt Inverse — This setting allows the user to invert the direction of the pan control.
1. Go to the **Tilt Inverse** main level.
2. Select **Yes** or **No**.

Back Light — This setting determines whether the control panel display backlight stays on indefinitely or turns off after 1 minutes of inactivity.
1. Go to the **Back Light** main level.
2. Select **Yes** or **No**.

Fixture Time — This option shows the amount of hours the Legend™ 412Z has been in use throughout its lifetime.
· Go to the **Fixture Time** main level.

Software Version — This option shows the user the software version currently installed in the Legend™ 412Z.
· Go to the **Firmware Version** main level.

Temperature — This setting allows the user to view the internal temperature (C°) of the Legend™ 412Z.
· Go to the **Temp.** main level.

Static Color (Manual Test) — The Static Color mode allows for permanent positioning, strobing, dimming, and RGBW color mixing without a DMX controller.
1. Go to the **Manual Test** main level.
2. Select the desired position (**Pan** or **Tilt**).
   a. Select the position value (**000–255**).
   b. Repeat for the other position.
3. Select the desired color (**Red 1–4**, **Green 1–4**, **Blue 1–4**, or **White 1–4**).
   a. Select the color value (**000–255**).
   b. Repeat for the other colors.
4. Select the beam angle (**Zoom**).
   · Select the angle value (**000–255**).
5. Select the intensity (**Dimmer**).
   · Select the intensity value (**000–255**).
6. Select the strobe frequency from 0–20 Hz (**Strobe**).
   · Select the strobe value (**000–255**).

Reset — This setting allows you to reset the Legend™ 412Z to the default values, including the custom programs.
1. Go to the **Reset** main level.
2. Wait for the reset process to finish.

White Calibration — This setting allows you to select the white color shown by the Legend™ 412Z when the DMX controller's red, green, and blue faders are set to **255**.
1. Go to the **White Balance** main level.
2. Select a color (**Red**, **Green**, or **Blue**).
3. Select a color value (**125**–**255**).
4. Repeat for the other colors.

When selecting White Balance, you will only be able to define the values of Red, Green, or Blue.

The values of Red, Green, or Blue configured from White Balance will define the color temperature shown when the RGB faders are set to 255.

Auto Test This setting starts the products test sequence.
- Go to the **Auto Test** main level.

Fan Mode This setting allows you to control the fan speed.
1. Go to the **Fan Mode** main level.
2. Select the desired speed (**Low**, **High**, or **Auto**).

- **When in AUTO, the fan speed automatically changes so the product's temperature does not exceed the maximum allowed value.**
- **When in the other settings, the fan speed follows the predefined values.**
- **The internal controller will override any manual setting if the internal temperature rises above a certain level.**

DMX Personality This setting allows you to choose a particular DMX personality.
1. Go to the **Channel Mode** main level.
2. Select the desired personality (**15chan**, **27chan**, **31chan**, or **34chan**).

- **See the DMX Values section for the highest starting address you can select for each personality.**
- **Make sure that the starting addresses on the various products do not overlap due to the new personality setting.**

DMX Control In this mode, each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison.
1. Select a DMX personality as shown in DMX Personality.
2. Set the starting address:
   a. Go to the **DMX Address** main level.
   b. Select the starting address (**001**–**512**).

The highest recommended starting address for each DMX mode is as follows:

DMX Personality	DMX Address	DMX Personality	DMX Address
15chan	498	**31chan**	482
27chan	486	**34chan**	479

DMX Values

15chan	Channel	Function	Value	Percent/Setting
	1	**Pan**	000 ó 255	0–540°
	2	**Fine Pan**	000 ó 255	Fine control of panning
	3	**Tilt**	000 ó 255	0–270°
	4	**Fine Tilt**	000 ó 255	Fine control of tilting
	5	**P/T Speed**	000 ó 255	Pan/Tilt speed (fast to slow)
	6	**Dimmer**	000 ó 255	0–100%
	7	**Strobe**	000 ó 019 020 ó 039 040 ó 059 060 ó 079 080 ó 099 100 ó 119 120 ó 139 140 ó 159 160 ó 179 180 ó 199 200 ó 219 220 ó 255	No function 0–20 Hz Strobe Macro 1 Strobe Macro 2 Strobe Macro 3 Strobe Macro 4 Strobe Macro 5 Strobe Macro 6 Strobe Macro 7 Strobe Macro 8 Strobe Macro 9 No function
	8	**Red**	000 ó 255	0–100%
	9	**Green**	000 ó 255	0–100%
	10	**Blue**	000 ó 255	0–100%
	11	**White**	000 ó 255	0–100%

DMX Values (cont.)

15chan (cont.)	Channel	Function	Value	Percent/Setting
	12	**Color Macro**	000 ó 019	No function
			020 ó 029	Macro 1
			030 ó 039	Macro 2
			040 ó 049	Macro 3
			050 ó 059	Macro 4
			060 ó 069	Macro 5
			070 ó 079	Macro 6
			080 ó 089	Macro 7
			090 ó 099	Macro 8
			100 ó 109	Macro 9
			110 ó 119	Macro 10
			120 ó 129	Macro 11
			130 ó 139	Macro 12
			140 ó 149	Macro 13
			150 ó 159	Macro 14
			160 ó 169	Macro 15
			170 ó 179	Macro 16
			180 ó 189	Macro 17
			190 ó 199	Macro 18
			200 ó 209	Macro 19
			210 ó 219	Macro 20
			220 ó 229	Macro 21
			230 ó 239	Macro 22
			240 ó 255	Macro 23
	13	**Macro Speed**	000 ó 255	0–100%
	14	**Zoom**	000 ó 255	0–100%
	15	**Reset**	000 ó 007	No function
			008 ó 069	Reset pan/tilt
			070 ó 129	Reset all
			130 ó 190	Pan/tilt movement blackout
			191 ó 205	Zoom presets
			206 ó 255	No function

DMX Values (cont.)

27chan	Channel	Function	Value	Percent/Setting
	1	**Pan**	000 – 255	0–540°
	2	**Fine Pan**	000 – 255	Fine control of panning
	3	**Tilt**	000 – 255	0–270°
	4	**Fine Tilt**	000 – 255	Fine control of tilting
	5	**P/T Speed**	000 – 255	Pan/Tilt speed (fast to slow)
	6	**Dimmer**	000 – 255	0–100%
	7	**Strobe**	000 – 019 020 – 039 040 – 059 060 – 079 080 – 099 100 – 119 120 – 139 140 – 159 160 – 179 180 – 199 200 – 219 220 – 255	No function 0–20 Hz Strobe Macro 1 Strobe Macro 2 Strobe Macro 3 Strobe Macro 4 Strobe Macro 5 Strobe Macro 6 Strobe Macro 7 Strobe Macro 8 Strobe Macro 9 No function
	8	**Red Quadrant 1**	000 – 255	0–100%
	9	**Green Quadrant 1**	000 – 255	0–100%
	10	**Blue Quadrant 1**	000 – 255	0–100%
	11	**White Quadrant 1**	000 – 255	0–100%
	12	**Red Quadrant 2**	000 – 255	0–100%
	13	**Green Quadrant 2**	000 – 255	0–100%
	14	**Blue Quadrant 2**	000 – 255	0–100%
	15	**White Quadrant 2**	000 – 255	0–100%
	16	**Red Quadrant 3**	000 – 255	0–100%
	17	**Green Quadrant 3**	000 – 255	0–100%
	18	**Blue Quadrant 3**	000 – 255	0–100%
	19	**White Quadrant 3**	000 – 255	0–100%
	20	**Red Quadrant 4**	000 – 255	0–100%
	21	**Green Quadrant 4**	000 – 255	0–100%
	22	**Blue Quadrant 4**	000 – 255	0–100%
	23	**White Quadrant 4**	000 – 255	0–100%

**Legend™ 412Z
Quadrants for
DMX Control**
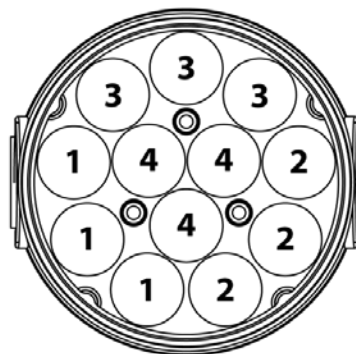
DMX Values (cont.)

27chan (cont.)	Channel	Function	Value	Percent/Setting
	24	**Color Macro**	000 ↔ 019	No function
			020 ↔ 029	Macro 1
			030 ↔ 039	Macro 2
			040 ↔ 049	Macro 3
			050 ↔ 059	Macro 4
			060 ↔ 069	Macro 5
			070 ↔ 079	Macro 6
			080 ↔ 089	Macro 7
			090 ↔ 099	Macro 8
			100 ↔ 109	Macro 9
			110 ↔ 119	Macro 10
			120 ↔ 129	Macro 11
			130 ↔ 139	Macro 12
			140 ↔ 149	Macro 13
			150 ↔ 159	Macro 14
			160 ↔ 169	Macro 15
			170 ↔ 179	Macro 16
			180 ↔ 189	Macro 17
			190 ↔ 199	Macro 18
			200 ↔ 209	Macro 19
			210 ↔ 219	Macro 20
			220 ↔ 229	Macro 21
			230 ↔ 239	Macro 22
			240 ↔ 255	Macro 23
	25	**Macro Speed**	000 ↔ 255	0–100%
	26	**Zoom**	000 ↔ 255	0–100%
	27	**Reset**	000 ↔ 007	No function
			008 ↔ 069	Reset pan/tilt
			070 ↔ 129	Reset all
			130 ↔ 190	Pan/tilt movement blackout
			191 ↔ 205	Zoom presets
			206 ↔ 255	No function

DMX Values (cont.)

31chan	Channel	Function	Value	Percent/Setting
	1	**Pan**	000 **ó** 255	0–540°
	2	**Fine Pan**	000 **ó** 255	Fine control of panning
	3	**Tilt**	000 **ó** 255	0–270°
	4	**Fine Tilt**	000 **ó** 255	Fine control of tilting
	5	**P/T Speed**	000 **ó** 255	Pan/Tilt speed (fast to slow)
	6	**Dimmer**	000 **ó** 255	0–100%
	7	**Strobe**	000 **ó** 019 020 **ó** 039 040 **ó** 059 060 **ó** 079 080 **ó** 099 100 **ó** 119 120 **ó** 139 140 **ó** 159 160 **ó** 179 180 **ó** 199 200 **ó** 219 220 **ó** 255	No function 0–20 Hz Strobe Macro 1 Strobe Macro 2 Strobe Macro 3 Strobe Macro 4 Strobe Macro 5 Strobe Macro 6 Strobe Macro 7 Strobe Macro 8 Strobe Macro 9 No function
	8	**Red Quadrant 1**	000 **ó** 255	0–100%
	9	**Green Quadrant 1**	000 **ó** 255	0–100%
	10	**Blue Quadrant 1**	000 **ó** 255	0–100%
	11	**White Quadrant 1**	000 **ó** 255	0–100%
	12	**Dimmer Quadrant 1**	000 **ó** 255	0–100%
	13	**Red Quadrant 2**	000 **ó** 255	0–100%
	14	**Green Quadrant 2**	000 **ó** 255	0–100%
	15	**Blue Quadrant 2**	000 **ó** 255	0–100%
	16	**White Quadrant 2**	000 **ó** 255	0–100%
	17	**Dimmer Quadrant 2**	000 **ó** 255	0–100%
	18	**Red Quadrant 3**	000 **ó** 255	0–100%
	19	**Green Quadrant 3**	000 **ó** 255	0–100%
	20	**Blue Quadrant 3**	000 **ó** 255	0–100%
	21	**White Quadrant 3**	000 **ó** 255	0–100%
	22	**Dimmer Quadrant 3**	000 **ó** 255	0–100%
	23	**Red Quadrant 4**	000 **ó** 255	0–100%
	24	**Green Quadrant 4**	000 **ó** 255	0–100%
	25	**Blue Quadrant 4**	000 **ó** 255	0–100%
	26	**White Quadrant 4**	000 **ó** 255	0–100%
	27	**Dimmer Quadrant 4**	000 **ó** 255	0–100%

DMX Values (cont.)

31chan (cont.)	Channel	Function	Value	Percent/Setting
	28	**Color Macro**	000 ó 019	No function
			020 ó 029	Macro 1
			030 ó 039	Macro 2
			040 ó 049	Macro 3
			050 ó 059	Macro 4
			060 ó 069	Macro 5
			070 ó 079	Macro 6
			080 ó 089	Macro 7
			090 ó 099	Macro 8
			100 ó 109	Macro 9
			110 ó 119	Macro 10
			120 ó 129	Macro 11
			130 ó 139	Macro 12
			140 ó 149	Macro 13
			150 ó 159	Macro 14
			160 ó 169	Macro 15
			170 ó 179	Macro 16
			180 ó 189	Macro 17
			190 ó 199	Macro 18
			200 ó 209	Macro 19
			210 ó 219	Macro 20
			220 ó 229	Macro 21
			230 ó 239	Macro 22
			240 ó 255	Macro 23
	29	**Macro Speed**	000 ó 255	0–100%
	30	**Zoom**	000 ó 255	0–100%
	31	**Reset**	000 ó 007	No function
			008 ó 069	Reset pan/tilt
			070 ó 129	Reset all
			130 ó 190	Pan/tilt movement blackout
			191 ó 205	Zoom presets
			206 ó 255	No function

DMX Values (cont.)

34chan	Channel	Function	Value	Percent/Setting
	1	Pan	000 → 255	0–540°
	2	Fine Pan	000 → 255	Fine control of panning
	3	Tilt	000 → 255	0–270°
	4	Fine Tilt	000 → 255	Fine control of tilting
	5	P/T Speed	000 → 255	Pan/Tilt speed (fast to slow)
	6	Dimmer	000 → 255	0–100%
	7	Red Quadrant 1	000 → 255	0–100%
	8	Green Quadrant 1	000 → 255	0–100%
	9	Blue Quadrant 1	000 → 255	0–100%
	10	White Quadrant 1	000 → 255	0–100%
	11	Dimmer Quadrant 1	000 → 255	0–100%
	12	Strobe Quadrant 1	000 → 019 020 → 249 250 → 255	No function 0–20 Hz No function
	13	Red Quadrant 2	000 → 255	0–100%
	14	Green Quadrant 2	000 → 255	0–100%
	15	Blue Quadrant 2	000 → 255	0–100%
	16	White Quadrant 2	000 → 255	0–100%
	17	Dimmer Quadrant 2	000 → 255	0–100%
	18	Strobe Quadrant 2	000 → 019 020 → 249 250 → 255	No function 0–20 Hz No function
	19	Red Quadrant 3	000 → 255	0–100%
	20	Green Quadrant 3	000 → 255	0–100%
	21	Blue Quadrant 3	000 → 255	0–100%
	22	White Quadrant 3	000 → 255	0–100%
	23	Dimmer Quadrant 3	000 → 255	0–100%
	24	Strobe Quadrant 3	000 → 019 020 → 249 250 → 255	No function 0–20 Hz No function
	25	Red Quadrant 4	000 → 255	0–100%
	26	Green Quadrant 4	000 → 255	0–100%
	27	Blue Quadrant 4	000 → 255	0–100%
	28	White Quadrant 4	000 → 255	0–100%
	29	Dimmer Quadrant 4	000 → 255	0–100%
	30	Strobe Quadrant 4	000 → 019 020 → 249 250 → 255	No function 0–20 Hz No function

DMX Values (cont.)

34chan (cont.)	Channel	Function	Value	Percent/Setting
	31	Color Macro	000 ↔ 019	No function
			020 ↔ 029	Macro 1
			030 ↔ 039	Macro 2
			040 ↔ 049	Macro 3
			050 ↔ 059	Macro 4
			060 ↔ 069	Macro 5
			070 ↔ 079	Macro 6
			080 ↔ 089	Macro 7
			090 ↔ 099	Macro 8
			100 ↔ 109	Macro 9
			110 ↔ 119	Macro 10
			120 ↔ 129	Macro 11
			130 ↔ 139	Macro 12
			140 ↔ 149	Macro 13
			150 ↔ 159	Macro 14
			160 ↔ 169	Macro 15
			170 ↔ 179	Macro 16
			180 ↔ 189	Macro 17
			190 ↔ 199	Macro 18
			200 ↔ 209	Macro 19
			210 ↔ 219	Macro 20
			220 ↔ 229	Macro 21
			230 ↔ 239	Macro 22
			240 ↔ 255	Macro 23
	32	Macro Speed	000 ↔ 255	0–100%
	33	Zoom	000 ↔ 255	0–100%
	34	Reset	000 ↔ 007	No function
			008 ↔ 069	Reset pan/tilt
			070 ↔ 129	Reset all
			130 ↔ 190	Pan/tilt movement blackout
			191 ↔ 205	Zoom presets
			206 ↔ 255	No function

5. TECHNICAL INFORMATION

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

· Unplug the product from power.
· Wait until the product is at room temperature.
· Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
· Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
· Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
· Wipe any dirt or grime to the outside edges of the lens surface.
· Gently polish the lens surfaces until they are free of haze and lint.

Always dry the external surfaces thoroughly and carefully after cleaning them.

Do not spin the cooling fans while blowing compressed air into them.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	7.21 in (183 mm)	10.67 in (271 mm)	13.98 in (355 mm)	16.6 lb (7.5 kg)
	Note: Dimensions in inches rounded to the nearest decimal digit.			

Power	Power Supply Type	Range	Voltage Selection
	Switching (internal)	100–240 VAC, 50/60 Hz	Auto-ranging

	Parameter	120 VAC, 60 Hz	230 VAC, 50 Hz
	Consumption	185 W	188 W
	Current	1.5 A	0.8 A
	Power linking current (products)	13.6 A (9 products)	13.6 A (17 products)
	Fuse/Breaker	T 6.3 A, 250 V	T 6.3 A, 250 V

	Power I/O	U.S./Canada	Worldwide
	Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
	Power output connector	Neutrik® powerCON® B	Neutrik® powerCON® B
	Power cord plug	Bare-wired	Bare-wired

Light Source	Type	Power	Lifespan
	LED	10 W	50,000 hours

	Color	Quantity	Current
	Quad-color (RGBW)	12	2.9 A

Photo Optic	Parameter	Standard Optics
	Illuminance (8°) @ 5 m	3,880 lux
	Illuminance (33°) @ 5 m	330 lux
	Beam angle	8° to 33°
	Field angle	11° to 53°
	Strobe rate	0–20 Hz

Thermal	Max. External Temperature	Cooling System
	113 °F (45 °C)	Fan-Assisted Convection

DMX	I/O Connectors	Connector Type	Channel Range
	3- and 5-pin XLR	Sockets	15, 27, 31 or 34

Ordering	Product Name	Item Code	UPC Number
	Legend™ 412Z	06010780	781462211288

RoHS

CE

MET ®
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UL 1573
CSA C22.2 No. 166
E113093

Returns You must send the product prepaid, in the original box, and with the original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

Clearly label the package with an RMA number. CHAUVET® will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:
· Your name
· Your address
· Your phone number
· The RMA number
· A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

CONTACT US

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Outside the U.S., United Kingdom, Ireland, or Mexico, contact your dealer. Follow their instructions to request support or to return a product. Visit our website for contact details.